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☐	L7	l5 and PEG	23
☐	L6	L5 and anthrax	3
☐	L5	L3 and Staphylococcus	84
☐	L4	L3 and CR1	3
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☐ 12. 20020102262. 22 Mar 01. 01 Aug 02. Collagen binding protein compositions and methods of use. Hook, Magnus, et al. 424/150.1; 530/388.4 A61K039/40 C07K016/12.

☐ 13. 6939543. 29 Jun 01; 06 Sep 05. Opsonic and protective monoclonal and chimeric antibodies specific for lipoteichoic acid of gram positive bacteria. Fischer; Gerald W., et al. 424/133.1; 424/150.1 424/164.1 435/7.1 530/387.1 530/387.3 530/388.1 530/388.4. C12P021/08 .

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☐ 2. 20060210582. 16 May 06. 21 Sep 06. Nucleic acids and proteins from streptococcus groups A & B. Telford; John, et al. 424/190.1; 435/252.3 435/471 435/6 435/69.1 530/350 530/388.4 536/23.7 A61K39/02 20060101 C07H21/04 20060101 C07K14/315 20060101 C12N1/21 20060101 C12P21/06 20060101 C12Q1/68 20060101

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☐ 5. 20060078951. 08 Oct 04. 13 Apr 06. Monoclonal antibody selectively recognizing listeria monocytogenes, hybridoma producing the antibody, test kit comprising the antibody and detection method of listeria monocytogenes using the antibody. Youn; Byung Soo, et al. 435/7.32; 435/340 530/388.4 C07K16/10 20060101 C12N5/06 20060101 G01N33/554 20060101 G01N33/569 20060101

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L1 and CR1	9

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☐ 7. 20050287149. 21 May 04. 29 Dec 05. Human monoclonal antibodies against bacillus anthracis protective antigen. Keler, Tibor, et al. 424/164.1; 435/252.31 435/320.1 435/6 435/69.3 530/388.4 536/23.7 800/6 A61K039/40 C12Q001/68 C07H021/04 C12N001/21 C07K016/12.

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☐ 1. 20070065919. 23 Aug 06. 22 Mar 07. Methods of producing stable B-lymphocytes. Groen; Herman, et al. 435/70.21; 435/326 435/372 530/388.4 C07K16/12 20060101 C12N5/08 20060101 C12P21/08 20060101

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1: Repik A, Pincus SE, Ghiran I, Nicholson-Weller A, Asher DR, Cerny AM, Casey LS, Jones SM, Jones SN, Mohamed N, Klickstein LB, Spitalny G, Finberg RW. Related Articles, Links

A transgenic mouse model for studying the clearance of blood-borne pathogens via human complement receptor 1 (CR1).
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2: Mohamed N, Clagett M, Li J, Jones S, Pincus S, D'Alia G, Nardone L, Babin M, Spitalny G, Casey L. Related Articles, Links

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3: Pincus SE, Lukacher N, Mohamed N, Sesay M, Zabinski R, Ebelle R, Duncan L, Li J, Chen X, Peng W, Adaelu J, Casey L, Porter JP, Spitalny G, Nardone LL. Related Articles, Links

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1: Peng W, Zhang X, Mohamed N, Inghirami G, Takeshita K, Pecora A, Nardone LL, Pincus SE, Casey LS, Spitalny GL. Related Articles, Links

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3: Repik A, Pincus SE, Ghiran I, Nicholson-Weller A, Asher DR, Cerny AM, Casey LS, Jones SM, Jones SN, Mohamed N, Klickstein LB, Spitalny G, Finberg RW. Related Articles, Links

A transgenic mouse model for studying the clearance of blood-borne pathogens via human complement receptor 1 (CR1).
Clin Exp Immunol. 2005 May;140(2):230-40.
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A high-affinity monoclonal antibody to anthrax protective antigen passively protects rabbits before and after aerosolized Bacillus anthracis spore challenge.
Infect Immun. 2005 Feb;73(2):795-802.
PMID: 15664918 [PubMed - indexed for MEDLINE]

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PMID: 15155630 [PubMed - indexed for MEDLINE]

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Evaluation of antigen-based heteropolymer for treatment of systemic lupus erythematosus in a nonhuman primate model.

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TITLE: Mammalian primate erythrocyte bound heteropolymerized monoclonal antibodies and methods of use thereof

DATE-ISSUED: January 30, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Taylor; Ronald P.	Charlottesville	VA		
Sutherland; William M.	Earlysville	VA		
Reist; Craig	Charlottesville	VA		
Wright; Eleanor L.	Earlysville	VA		
Webb; Donna	Charlottesville	VA		
Labuguen; Ronald	Charlottesville	VA		

US-CL-CURRENT: 424/136.1; 424/142.1, 424/147.1, 424/150.1, 424/153.1, 435/70.21, 530/387.3, 530/388.15, 530/388.3, 530/388.4

CLAIMS:

What is claimed is:

1. A method of therapeutically treating a primate individual with a target antigen present in its circulatory system, said target antigen being selected from the group consisting of a virus, a microorganism and a protein, comprising administering to said individual a therapeutically effective amount of a monoclonal antibody heteropolymer comprising a first monoclonal antibody specific for CR1 receptor cites on the surface of erythrocytes of said individual, said first monoclonal antibody being cross-linked to a second monoclonal antibody specific for said target antigen.

2. The method of claim 1, wherein said monoclonal antibodies are obtained from a non-human host.

3. The method of claim 1, wherein said antibodies are obtained from a human host.

4. The method of claim 1, wherein said antigen is a virus.

5. The method of claim 1, wherein said antigen is a microorganism.

6. The method of claim 1, wherein said antigen is a protein.

1: Cancer Immunol Immunother. 1997 Nov-Dec;45(3-4):152-5.

Clearance of blood-borne pathogens mediated through bispecific monoclonal antibodies bound to the primate erythrocyte complement receptor.

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The primate erythrocyte complement receptor facilitates both the immune adherence reaction and the immune complex clearance properties of primate erythrocytes. These phenomena have been studied for more than 40 years. However, it has only recently become apparent that these characteristics of primate erythrocytes may be useful in the generation of a therapy based on bispecific monoclonal antibodies. Our approach uses bispecific monoclonal antibody constructs (heteropolymers) that promote binding of specific target pathogens to primate erythrocytes via the complement receptor. Once bound to the erythrocytes, the pathogen-heteropolymer complex should be cleared from the circulation, phagocytosed and destroyed in the liver. Results with several prototype target pathogens in monkey models indicate it may be possible to use this technology to develop a robust and general therapy for the treatment of diseases associated with blood-borne pathogens.

PMID: 9435861 [PubMed - indexed for MEDLINE]

1: J Hematother. 1995 Oct;4(5):357-62.

Links

Primate erythrocyte (E) complement receptor (CR1) as an anchor site for bispecific-based therapies to clear pathogens or autoantibodies safely from the circulation.

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We have prepared cross-linked, bispecific complexes [heteropolymers (HP) and antigen-based heteropolymers (AHP)] that facilitate complement-independent binding of target model pathogens or autoantibodies to primate erythrocytes (E) via complement receptors (CR1). The method is based on using monoclonal antibodies (mAb) specific for CR1 that either are cross-linked to an mAb specific for a prototype pathogen (e.g., IgE) or are cross-linked to an autoantigen (e.g., dsDNA) that is recognized by circulating pathogenic autoantibodies in the autoimmune disease systemic lupus erythematosus (SLE). The underlying assumption in this research is that complexed ligands containing IgG bound to primate E CR1 should be recognized and processed via the same mechanism by which complement-opsonized immune complexes bound to E CR1 are cleared from the circulation and phagocytosed in the liver and spleen. Our work in experimental monkey models has demonstrated that binding of substrates to primate E via this method does indeed lead to the safe and rapid clearance of the target pathogens or autoantibodies from the circulation, without any lysis or loss of the E. Although a number of questions must still be resolved, it may be possible to generalize these findings and use this CR1-based approach to develop a simple noninvasive bispecific therapy that can be used to clear pathogens or autoantibodies from the circulation.

PMID: 8581369 [PubMed - indexed for MEDLINE]